



## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PA5200PCT</b>	<b>FOR FURTHER ACTION</b>	See Form PCT/IPEA/416
International application No. <b>PCT/JP2003/015550</b>	International filing date ( <i>day/month/year</i> ) <b>04 December 2003 (04.12.2003)</b>	Priority date ( <i>day/month/year</i> ) <b>16 January 2003 (16.01.2003)</b>
International Patent Classification (IPC) or national classification and IPC <b>B41L 13/04, 13/14, 13/16, B41C 1/055, B65H 23/185, 26/08</b>		
Applicant <b>RISO KAGAKU CORPORATION</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a.  (*sent to the applicant and to the International Bureau*) a total of \_\_\_\_\_ sheets, as follows:

sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b.  (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand <b>13 July 2004 (13.07.2004)</b>	Date of completion of this report <b>22 November 2004 (22.11.2004)</b>
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/015550

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:

- international search (under Rules 12.3 and 23.1(b))
- publication of the international application (under Rule 12.4)
- international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

The international application as originally filed/furnished

the description:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

- the description, pages \_\_\_\_\_
- the claims, Nos. \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (*specify*): \_\_\_\_\_
- any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages \_\_\_\_\_
- the claims, Nos. \_\_\_\_\_
- the drawings, sheets/figs \_\_\_\_\_
- the sequence listing (*specify*): \_\_\_\_\_
- any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1-8	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-8	NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO

**2. Citations and explanations (Rule 70.7)**

Document 1: JP, 10-329401, A (Tohoku Ricoh Co., Ltd.), 15 December 1998, Par. Nos. [0005], [0023], [0037]

Document 2: JP, 6-143782, A (Riso Kagaku Corp.), 24 May, 1994, Par. Nos. [0023] – [0027], [0042] – [0043] & US, 6068209, A

Document 3: JP, 2002-144688, A (Tohoku Ricoh Co., Ltd.), 22 May, 2002, Par. Nos. [0004] – [0014], [0066] – [0067] & US, 2002, 0053291, A1

Document 4: JP, 2001-18507, A (Riso Kagaku Corp.), 23 January, 2001, Par. Nos. [0034] – [0040], [0060] & EP, 1066967, A2

The inventions of claims 1 and 3 do not appear to involve an inventive step based on documents 1 and 2 cited in the ISR. The invention described in document 1 discriminates roll diameter of stencil paper rolls by obtaining a rotation speed of a stencil paper roll; however, obtaining the residual quantity of the stencil paper roll as described in document 2, instead of obtaining the rotation speed of a stencil paper roll, would be easy for a person skilled in the art.

The inventions of claims 2 and 5 do not appear to involve an inventive step based on documents 1 and 2 and document 3 cited in the ISR. Document 3 describes controlling a drive speed of a carrying means based on a type of stencil paper.

The invention of claim 4 does not appear to involve an inventive step based on documents 1, 2 and 3. Paragraph [0007] of document 3 describes a carrying speed changing according to usage environment temperature.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

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**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of Box V:

The invention of claim 6 does not appear to involve an inventive step based on documents 1, 2 and 3. Paragraph [0005] of document 3 describes the point of a difference of thermal head surface properties affecting a carrying distance of stencil paper, and merely considering a type of thermal head as well could easily be conceived of by a person skilled in the art.

The inventions of claims 7 and 8 do not appear to involve an inventive step based on documents 1, 2, 3 and document 4 cited in the ISR. Document 4 describes a stencil paper roll provided with a recording means and recording residual amount data and type data onto the recording means would be easy for a person skilled in the art.